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**NATIONAL SECURITY AGENCY**  
**Washington 25, D.C.**

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## REPORT

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A SOVIET AIR DEFENSE INSTALLATION OF ADVANCED DESIGN AT ORSK AIRFIELD  
PROBABLY REPRESENTS THE HEADQUARTERS AND ONE RADAR STATION OF SECTOR  
V IN THE SVERDLOVSK AIR DEFENSE DISTRICT

Analysis of Sverdlovsk Air Defense District (ADD) communications has revealed the existence of a fifth sector with headquarters and eight radar stations, since at least October 1958. Available [ ] information<sup>1</sup> on Sector V of the Sverdlovsk ADD has located one of the radar stations tentatively at Sterlitamak (53-38N 55-59E).

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Photographic intelligence<sup>2</sup> from [ ] reveals a Soviet Air Defense installation of advanced design located at Orsk Airfield (51-15'-45"N 58-37'-53"E). The [ ] material confirms and precisely locates a Soviet Air Defense installation which probably represents the headquarters and one radar station of Sector V in the Sverdlovsk ADD.

DETAILS

The area of responsibility of Sector V, as derived from [ ] generally centers around Orsk and is approximately bounded on the North by Sector IV of the Sverdlovsk ADD, on the East by the Siberian ADD, and on the South and West by the Volga ADD.

The acute lack of communications intercept from this area has precluded an exact determination of the deployment and capabilities of the air defense elements within Sector V. The [ ] information, however, has provided the initial evidence of an advanced design Soviet Air Defense Center and radar station in this area.

The Air Defense Center consists of two partially buried and revetted direction control buildings, and associated headquarters, barracks, and utility buildings. The primary radar installation is equipped with a BAR LOCK acquisition radar, a STONE CAKE height finding radar, and a MERCURY GRASS VHF communications installation. The secondary radar installation is equipped with two KNIFEREST acquisition radar, two FISHNET IFF equipment, and a MERCURY GRASS and DISCONE VHF communications installation. The communications site consists of a revetted communications building, three associated quarters buildings and approximately six DISCONE VHF communications antennas.

COMMENTS

Another installation similar to that at Orsk has been reported at Krasnovodsk<sup>3</sup> in [ ] material. The Orsk installation is not hardened to the extent that the Krasnovodsk installation is, probably because the location of Orsk in the Ural Mountains did not require the protection necessary at Krasnovodsk.

1. 3/ARU/C9801 and 3/ARU/C10555.
2. DPIR T59-17, July 1959.
3. DPIR T59-7, February 1959.

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The scarcity of [ ] information from this area has precluded identification of any air defense data transmission systems with the Orsk Air Defense Installation.

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